

Figure 1

Triad Design Schematic

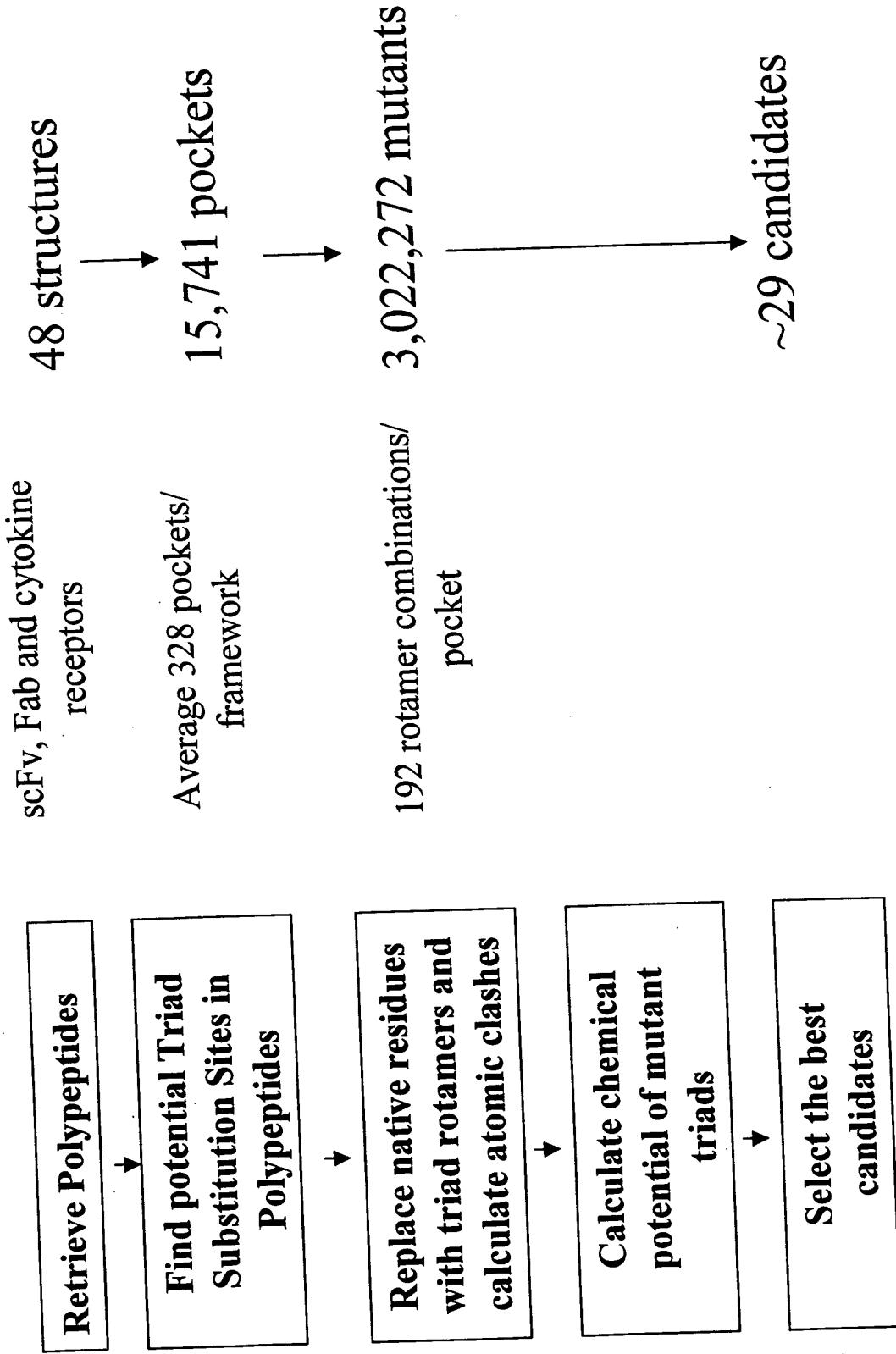


Figure 2

FIGURE 3

Overall mutation: 1TNF_b_tyr_119_asp, c_tyr_119_his, c_tyr_59_ser

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1. Chain B mutation: b_tyr_119_asp

>1TNF_alpha
GTCAGATCATCTCTCGAACCCCGAGTGACAAGCCTGTAGCCCATGTTGTAGCAAACCCCTCAAGCTGAG
GGCAGCTCCAGTGGCTGAACCGCCGGCCAATGCCCTCTGGCCAATGGCGTGGAGCTGAGAGATAAC
10 CAGCTGGTGGTGCATCAGAGGGCTGTACCTCATCTACTCCCAGGTCTCTCAAGGCCAAGGCTGC
CCCTCCACCCATGTGCTCTCACCCACCCATCAGCCGATGCCGTCTCTACCCAGACCAAGGTCAAC
CTCCTCTCTGCCATCAAGAGCCCTGCCAGAGGGAGACCCAGAGGGGGCTGAGGCCAAGGCCCTGGTAT
GAGCCCATCGATCTGGAGGGTCTTCAGCTGGAGAAGGGTGACCGACTCAGCGCTGAGATCAATCGG
CCCGACTATCTGACTTTGCCAGTCTGGCAGGTCTACTTTGGGATCATTGCCCTGTGA

15

Resulting Protein sequence, chain B:

VRSSSRTPSDKPVAHVVAAPQAEGLQWLNRANALLANGVELRDNLQLVVPSEGGLYLIYS
QVLFKGQGCPSTHVLLHTSRIA VSYQTKVNL SAIKSPCQRETPEGAEAKPWYEPIDL
GGVFQLEKGDRLSAEINRPDYLLFAESGQVYFGI AL

20

2. Chain C mutations: c_tyr_119_his, c_tyr_59_ser

>1TNF_alpha
GTCAGATCATCTCTCGAACCCCGAGTGACAAGCCTGTAGCCCATGTTGTAGCAAACCCCTCAAGCTGAG
GGCAGCTCCAGTGGCTGAACCGCCGGCCAATGCCCTCTGGCCAATGGCGTGGAGCTGAGAGATAAC
25 CAGCTGGTGGTGCATCAGAGGGCTGTACCTCATCAGTTCCAGGTCTCTCAAGGCCAAGGCTGC
CCCTCCACCCATGTGCTCTCACCCACCCATCAGCCGATGCCGTCTCTACCCAGACCAAGGTCAAC
CTCCTCTCTGCCATCAAGAGCCCTGCCAGAGGGAGACCCAGAGGGGGCTGAGGCCAAGGCCCTGGTAT
GAGCCCATCCATCTGGAGGGGTCTTCAGCTGGAGAAGGGTGACCGACTCAGCGCTGAGATCAATCGG
CCCGACTATCTGACTTTGCCAGTCTGGCAGGTCTACTTTGGGATCATTGCCCTGTGA

30

Resulting Protein sequence, chain C:

VRSSSRTPSDKPVAHVVAAPQAEGLQWLNRANALLANGVELRDNLQLVVPSEGGLYLISS
QVLFKGQGCPSTHVLLHTSRIA VSYQTKVNL SAIKSPCQRETPEGAEAKPWYEPIDL
GGVFQLEKGDRLSAEINRPDYLLFAESGQVYFGI AL